

VEHICULAR MIRROR WITH SLIP CLUTCH FOR JACK SCREW ACTUATOR

Abstract

A motorized tilt actuator assembly comprises one or more threaded jack screws attached to a mirror glass case and traveling along one or more threaded actuator shafts with rotation of the motor. When a jack screw reaches its limit of travel, relative movement between the actuator shaft and the glass case can occur through a slip clutch mechanism during such time as the motor continues to operate. In one embodiment, the relative movement is accommodated by a spherical actuator head rotating in a compressively spring-biased socket. In another embodiment, the relative movement is accommodated by slippage along a friction surface interposed between the actuator shaft and the motor. Manual repositioning of the mirror can be accommodated by slippage of the jack screw threads past the actuator shaft threads, or by a coarse threaded interconnection of the jack screw and the actuator shaft.